INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/15934

		PC1/USU4/	15934	
A. CLASSIFICATION OF SUBJECT MATTER				
IPC(7) : F15C 1/04; F15B 21/00				
US CL : 137/807, 827, 833; 204/601				
According to International Patent Classification (IPC) or to both national classification and IPC				
B. FIELDS SEARCHED				
Minimum documentation searched (classification system followed by classification symbols)				
U.S.: 137/807, 827, 833; 204/601				
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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched				
NONE				
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)				
NONE				
C. DOCUMENTS CONSIDERED TO BE RELEVANT				
Category *	Citation of document, with indication, where a	ppropriate, of the relevant passages	Relevant to claim No.	
<u>x</u>	US 5,880,071 A (PARCE et al) 09 March 1999 (09	<u> </u>		
	column 8, lines 55.	.03.1777), occ column 3, mics 00,	1-15, 40-42, 44-49	
Y	3,		14-39	
			1,05	
Y	US 6,444,461 B1 (KNAPP et al) 03 September 2002 (03.09.2002), See column 31, lines 26 and 38			
	15.			
Y	US 6,321,791 B1 (CHOW) 27 November 2001 (27.11.2001), See column 12 lines 47.		43	
Α	US 6,508,273 B1 (VAN DEN BERG) 21 January 2003 (21.01.2003), See entire			
_	document.			
P	US 6,725,882 A (SHIA et al.) 27 April 2004 (27.0	4.2004), See column 6, lines 6.	1-49	
			·	
Further	documents are listed in the continuation of Box C.	See patent family annex		
* S _I	pecial categories of cited documents:	"T" later document published after	the international filing date or priority	
"A" dosument	defining the general state of the antuckish is not considered to be	date and not in conflict with th	e application but cited to understand the	
"A" document defining the general state of the art which is not considered to be principle or theory underlying the invention of particular relevance				
"X" document of particular relevance; the claimed invention cannot be				
"E" earlier app	plication or patent published on or after the international filing date	considered novel or cannot be when the document is taken alo	considered to involve an inventive step	
	which may throw doubts on priority claim(s) or which is cited to			
establish (specified)	he publication date of another citation or other special reason (as	"Y" document of particular relevan considered to involve an inven-	ce; the claimed invention cannot be	
specifical			ner such documents, such combination	
"O" document	referring to an oral disclosure, use, exhibition or other means	being obvious to a person skille		
"P" document published prior to the international filing date but later than the		"&" document member of the same	patent family	
priority date claimed				
Date of the actual completion of the international search Date of mailing of the international search report				
III		n 2. M	Date of mailing of the international search report 0 2 MAR 2005	
	2005 (03.02.2005)	U & III	7 11	
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